

CLAIMS

What is claimed is:

1. A self-contained sanitary system for a vehicle, the system comprising:
a toilet having a flush tank for storing a source of flush water; and
a spout being in fluid communication with the flush tank and having a first open end coupled to the flush tank, the spout further including a second open end opposite the first open end;
the spout coupled to the flush tank for rotation about a generally vertical axis between a stowed position and an access position; and
the second end being rotatably relative to the first end about a generally horizontal axis between a fill position and a drainage position.
2. The self-contained sanitary system for a vehicle of Claim 1, wherein the spout includes a first component and a second component, the second component coupled to the first component for relative rotation about the generally horizontal axis between the fill position and the drainage position.
3. The self-contained sanitary system for a vehicle of Claim 1, wherein the spout is coupled to the flush tank for rotation about the generally horizontal axis through at least approximately 180°.

4. The self-contained sanitary system for a vehicle of Claim 1, wherein the second end is rotatable relative to the first end about the generally horizontal axis through approximately 90°.

5. The self-contained sanitary system for a vehicle of Claim 1, wherein the second end includes an opening, the opening facing generally upward in the fill position and facing generally upward in the fill position and facing generally downward in the drainage portion.

6. The self-contained sanitary system for a vehicle of Claim 1, wherein the system further includes a bench and wherein the spout is disposed within the bench in the stowed position and the spout extends from the bench in the access position.

7. A self-contained sanitary system for a vehicle, the system comprising:
a bench having a toilet, the bench defining a storage chamber;
a holding tank removably associated with the toilet when positioned in the storage chamber, the holding tank including a pair of wheels rotatably mounted to a body of the holding tank.

8. The self-contained sanitary system for a vehicle of Claim 7, further comprising a base member, the base member and the bench defining a stowage chamber for receiving the holding tank, the holding tank having a bottom surface that slidably engages the base member for introducing the holding tank into the stowage chamber and removing the holding tank from the stowage chamber, the pair of wheels and the retractable handle being disposed completely above the bottom surface.

9. The self-contained sanitary system for a vehicle of Claim 7, wherein the body of the holding tank includes a pair of opposing sidewalls, each sidewall having a recessed portion, the wheels being disposed in one of the recessed portions.

10. The self-contained sanitary system for a vehicle of Claim 7, wherein the wheels do not substantially extend beyond the respective sidewall in a lateral direction.

11. The self-contained sanitary system for a vehicle of Claim 7, further comprising a handle attached to the body of the holding tank.

12. The self-contained sanitary system for a vehicle of Claim 11, wherein the handle is retractable.

13. The self-contained sanitary system for a vehicle of Claim 12, wherein the retractable handle includes cooperating pairs of telescoping tubular members, the pairs of telescoping tubular member disposed in channels defined by the main body of the holding tank.

14. The self-contained sanitary system for a vehicle of Claim 13, wherein the holding tank has a bottom surface, and further wherein the handle is completely disposed above the bottom surface.

15. A level indicator for a plastic tank in combination with the plastic tank, a level indicator assembly comprising:

a float arm disposed in the tank having a float for floating on an upper surface of a contents of the tank, the float arm further including a magnet for generating a magnetic signal;

a plurality of switches carried on an outside surface of the holding tank, the switches each being movable from an open position to a closed position in response to the magnetic signal; and

a corresponding plurality of LEDs for visually indicating a level of contents in the tank, each of the LEDs being controlled by one of the plurality of switches such that closing of the switch lights the associated LED.

16. The level indicator assembly of Claim 15, wherein the switches of the plurality of switches are electric reed switches.

17. The level indicator assembly of Claim 15, wherein the plurality of switches includes three switches.

18. The level indicator assembly of Claim 15, wherein the tank is a waste holding tank and the level indicator assembly monitors a level of waste within the waste holding tank.

19. The level indicator assembly of Claim 15, wherein the tank is a water holding tank for a sanitary system of a motor vehicle and the level indicator assembly monitors a level of flush water within the tank.